

SCBA Operations and Maintenance

Goals and Objectives

- The goals and objectives of this lesson are to:
- Familiarize the firefighter with the cleaning and maintenance of the MSA SCBA.
- Familiarize the firefighter with the operations of the MSA SCBA.
- Assure that the firefighter can don their PPE in 2 minutes or less.

Study Materials

- MP's
- 504.06
- 302.03
- 855.08
- 852.07
- IFSTA Essentials, 3rd Edition

Daily Check

- Don ear protection
- Check cylinder pressure (not less than 4000 psi)
- MMR in off position (button pushed in)
- Red by-pass valve closed (clockwise)
- Air cylinder valve open (counter clockwise)
 - Low air bell rings
 - Low air alarm on pass sounds
 - Small LED light on pass blinks green
 - Check pass air pressure gauge +/- 10% of cylinder gauge

Daily Check con't.

- Test pass as follows:
- Pre alarm sounds-shake to reset
- Second stage alarm sounds-shake to reset
- Third stage alarm sounds-shake to reset
- Full alarm sounds-shake to try to reset then reset by pushing yellow button twice
- Immediate alarm-press red button on pass, reset after alarm sounds

Daily Check con't.

- Air cylinder valve-closed
- Bleed air off slowly using by-pass valve.
Watch pressure gauge and monitor low air bell-should ring around 25% or 1125 psi
- Reset low air alarm by pushing yellow reset button twice after dashes on LED
- **RECORD YOUR SCBA DAILY CHECK IN STATION LOG!!!!**

Wednesday Check

- Don ear protection
- Check cylinder pressure (not less than 4000 psi)
- MMR in off position (button pushed in)
- Red by-pass valve closed (clockwise)
- Air cylinder valve open (counter clockwise)
 - Low air bell rings
 - Low air alarm on pass sounds
 - Small LED light on pass blinks green
 - Check pass air pressure gauge +/- 10% of cylinder gauge

Wednesday Check con't.

- Test pass as follows:
- Pre alarm sounds-shake to reset
- Second stage alarm sounds-shake to reset
- Third stage alarm sounds-shake to reset
- Full alarm sounds-shake to try to reset then reset by pushing yellow button twice
- Immediate alarm-press red button on pass, reset after alarm sounds

Wednesday Check con't.

- Don face piece
- Insert MMR into face piece, exhale then inhale to start air flow
- Breathe normally
- Test by-pass valve-open quarter turn
- Test pass back light-push green button
- Remove mmr from face piece
- Close air cylinder valve

Wednesday Check con't.

- Bleed air off slowly using by-pass valve, checking low air bell as it drains
- Reset or silence low air alarm-push yellow button twice
- Check battery icon for amount of battery left
- Test immediate alarm with system off, reset by pushing yellow button twice
- RECORD ON STATION LOG!!!!!!

Maintenance

- The maintenance division will perform repair of SCBA's
- Air-14 will maintain spare pool SCBA's and related items
- The captain will contact air-14, who will deliver and exchange a pool SCBA to your station and take the broken SCBA to the shop

Maintenance con't.

- After the shop has repaired the SCBA, air-14 will return the repaired SCBA to the assigned rig and exchange it with the pool SCBA
- The maintenance division will document any repairs done to SCBA

Cleaning

- The harness should be washed with soap and water after each fire
- The face piece should be washed after each fire and when ever it gets dusty or dirty from day to day dust and dirt

Two Minute Timing

- | | |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <input type="checkbox"/> Step into boots and pants, placing suspenders over shoulders | <input type="checkbox"/> Push head sock and helmet back off head |
| <input type="checkbox"/> Don head sock | <input type="checkbox"/> Don face piece and secure straps checking for a seal |
| <input type="checkbox"/> Don coat fastening snaps, hooks and velcro | <input type="checkbox"/> Bring head sock and helmet back up on head, tighten chin strap |
| <input type="checkbox"/> Don SCBA with coat or over the head method | <input type="checkbox"/> Turn tank on fully |
| <input type="checkbox"/> Adjust waist and shoulder straps of SCBA | <input type="checkbox"/> Insert MMR into face piece |
| <input type="checkbox"/> Don helmet | <input type="checkbox"/> Don gloves |
| | <input type="checkbox"/> TIME_____ |

NAME_____ID_____

DATE_____ RIG/SHIFT_____

1. The firefighter demonstrates daily check of SCBA. Y_____ N_____
2. The firefighter demonstrates the Wednesday check of the SCBA.
Y_____ N_____
3. The firefighter explains the policy on maintenance and repair of the SCBA. Y_____ N_____
4. The firefighter demonstrates cleaning of the SCBA and face piece.
Y_____ N_____
5. Captains signature_____